

WisDOT 2005 Wisconsin Major Highways

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Identification_Information:

Citation:

Citation_Information:

Originator:

Wisconsin Department of Transportation (WisDOT), Division of Business Management, Bureau of Automation Services, Geographic Information Services Unit

Publication_Date: 2006

Title: WisDOT 2005 Wisconsin Major Highways

Edition: End of 2005 Construction Year

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: Madison, Wisconsin, USA

Publisher: Wisconsin Department of Transportation (WisDOT)

Larger_Work_Citation:

Citation_Information:

Originator: Wisconsin Department of Transportation (WisDOT)

Publication_Date: Varies

Title: Location Control Management (LCM) Data Sets

Publication_Information:

Publication_Place: Madison, Wisconsin, USA

Publisher: Wisconsin Department of Transportation

(WisDOT)

*Description:**Abstract:*

This data set contains spatial object chains representing the centerline of Wisconsin State, US and Interstate Roadways and selected supporting state-owned roadways such as ramps, connectors, frontage roads. It's detail and positioning is comparable 1:100,000. The names of the State, US and Interstate routes are included.

This data has been projected to WTM83/91.

Purpose:

This data set was created to support comprehensive state-wide roadway and intermodal system planning, regional system and network planning, regional facilities and roadway project management, regional operations management and high level corridor analysis at state, regional and large corridor extents. It is used to transform one-dimensional linearly-referenced transportation data to a two-dimensional form (x,y or geographic), and vice versa. From this data set, maps ranging in scale from 1:800,000 to 1:30,000 have been produced with acceptable results, but maps at a scale closer to the compilation scale of 1:100,000 are recommended for most uses. The data may contain historical chains and chains that represent roadways planned for the future.

*Time_Period_of_Content:**Time_Period_Information:**Range_of_Dates/Times:*

Beginning_Date: 1993

Ending_Date: Present

Currentness_Reference: Publication date of sources

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

*Spatial_Domain:**Bounding_Coordinates:*

West_Bounding_Coordinate: -92.88922

East_Bounding_Coordinate: -86.76400

North_Bounding_Coordinate: 47.08095

South_Bounding_Coordinate: 42.49180

*Keywords:**Theme:*

Theme_Keyword_Thesaurus: none

Theme_Keyword: roadways

Theme_Keyword: centerlines

Theme_Keyword: roads

Theme_Keyword: Interstate

Theme_Keyword: highways

Theme_Keyword: transportation

Place:

Place_Keyword_Thesaurus: none

Place_Keyword: Wisconsin

Access_Constraints:

In accordance with Wisconsin State Statutes regarding open records, in particular, Subchapter II - Public Records and Property, Sections 19.31 through 19.39 (data access and distribution).

Use_Constraints: none

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Jonathan J. Du Chateau

Contact_Organization:

Wisconsin Department of Transportation, Division of Business
Management, Bureau of Automation Services, Geographic
Information Services Unit

Contact_Position: Location Control Management GeoManager

Contact_Address:

Address_Type: mailing address

Address: Room 201B, 4802 Sheboygan Avenue

City: Madison

State_or_Province: Wisconsin

Postal_Code: 53707

Country: United States

Contact_Voice_Telephone: 608-266-6975

Contact_Facsimile_Telephone: 608-266-1515

Contact_Electronic_Mail_Address: [URL:mailto:jonathan.duchateau@dot.state.wi.us](mailto:jonathan.duchateau@dot.state.wi.us)

Hours_of_Service: 7:30 to 4:00 Monday to Friday

Contact_Instructions: call for information

Native_Data_Set_Environment: Arc/Info version 8.1.2 on Windows NT

Cross_Reference:

Citation_Information:

Originator: United States Geological Survey

Publication_Date: 1986

Title: 1:100,000 Transportation Layer Digital Line Graph

Online_Linkage: [URL:ftp://edcftp.cr.usgs.gov/pub/data/DLG/100K](ftp://edcftp.cr.usgs.gov/pub/data/DLG/100K)

Cross_Reference:

Citation_Information:

Originator:

Wisconsin Department of Transportation, Division of Transportation
Infrastructure Development,

Publication_Date: varies

Title: Design and Construction Plans

Geospatial_Data_Presentation_Form: map

Publication_Information:

Publication_Place: Madison Wisconsin

Publisher: Wisconsin Department of Transportation (WisDOT)

Data_Quality_Information:

Logical_Consistency_Report:

The data is a Spatial Data Transfer Standard "network chain", or a line string with from-to topology. The EXCEPTIONS: 1) it is nonplanar; that is, it does not have nodes where two or more roadway cross that have no at-grade intersection (for example, roads at an underpass or overpass, 2) two divided roadways which are typically represented as one chain at 1:100,000 are represented as two spatially coincident chains, and 3) the data set may have historical and future chains which also cause coincident and nonplanar circumstances. Chain-node topology present.

Completeness_Report:

Refer to the Roadway Chain Database section of the Location Control Management (LCM) Manual, WisDOT, Madison, Wisconsin, USA

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: Conforms to U.S. National Map Accuracy Standards.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: 167 linear feet

Horizontal_Positional_Accuracy_Explanation:

Resolution was computed from using the National Map Accuracy Standard of 1/50" for maps at a scale of 1:100,000.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: WisDOT

Publication_Date: 1992

Title: 1:100,000 State Trunk Highway Network (STHN)

Larger_Work_Citation:

Citation_Information:

Originator: WisDOT, Office of Technical Services

Publication_Date: 1993

Title: GB100 Data Sets

Source_Scale_Denominator: 100000

Type_of_Source_Media: computer program

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19930101

Source_Currentness_Reference: ground condition

Source_Citation_Abbreviation: STHN

Source_Contribution:

Centerline roadway geometry at 1:100,000 scale and route numbers for the State Trunk Highway Network (STHN).

Source_Information:

Source_Citation:

Citation_Information:

Originator: WisDOT, Division of Highways

Publication_Date: varies

Title: Design and Construction Plans

Edition: None

Geospatial_Data_Presentation_Form: map

Publication_Information:

Publication_Place: Madison Wisconsin, USA

Publisher: Wisconsin Department of Transportation

Source_Scale_Denominator: 1200

Type_of_Source_Media: paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: Unknown

Source_Currentness_Reference:

Finalized design of roadway may be altered by the Construction Engineer.

Source_Citation_Abbreviation: none

Source_Contribution:

Centerline coordinate geometry and stationing at 1:1200 scale for the shape and node identification.

Process_Step:

Process_Description:

State Trunk Highway Network (STHN) converted format of STHN datasets to that of the roadway chains. This involved changing the dataset from planar to nonplanar, altering the number, names and content of attributes, and re-tiling the datasets from WisDOT Transportation districts to a statewide extent. For a more detailed explanation, see the Roadway Chain Conversion documentation.

Process_Date: 1995

Process_Step:

Process_Description:

Design and Construction plans centerline geometry information for roadway sections that are re-aligned are entered into a roadway design package. The Coordinate Geometry (CoGo) file is then converted to an Arc/Info line coverage. The line coverage is then fitted via cartographic manipulations into the Roadway Chain dataset with the appropriate attributes. For a more detailed explanation, see the WisDOT LCM Maintenance Process documentation.

Process_Date: Not complete

Process_Step:

Process_Description:

In April 2006, the Wisconsin Department of Natural Resources (DNR) received an e-mail from the Wisconsin Department of Transportation (WisDOT) with an attached zipfile containing an Arc/Info workspace with a line coverage representing the Wisconsin State Trunk Network as of 01/01/2006. One of the line coverages, named "rdwy_chn2", was a version of the WI State Trunk Network from which all non-state roads and historical arcs had been removed.

Process_Step:

Process_Description:

Wisconsin DNR staff performed minor modifications to the "rdwy2_chn" data set, intended to make the data more suitable for large-scale mapping at the DNR:

1. The data was projected from WTM27 to WTM83/91.
2. Coincident arcs representing the opposite side of roadways were removed.
3. Arcs representing on/off ramps were removed.
4. The item "Basc_sys_t" was renamed to "Basc_ty" so as to be consistent with the naming in an earlier version of WisDOT Major Highways in use at the DNR.

DNR staff updated metadata to accompany the modified version of the 1:100,000-scale Roadway Chain, WisDOT data set, called "WisDOT 2005 Wisconsin Major Highways". This data set is also referred to as the "thinned" version of WisDOT 2005 Wisconsin Major Highways.

Process_Date: 2006

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Wisconsin DNR. Bureau of
Technology Services

Contact_Position: GIS Data Specialist

Contact_Address:

Address_Type: mailing address
Address: P.O. Box 7921
City: Madison
State_or_Province: WI
Postal_Code: 53707-7921
Country: USA
Contact_Electronic_Mail_Address: geodata@dnr.state.wi.us

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 9045

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Map_Projection:

Map_Projection_Name: Transverse Mercator

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

Longitude_of_Central_Meridian: -90.000000

Latitude_of_Projection_Origin: 0.000000

False_Easting: 520000.000000

False_Northing: -4480000.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.001024

Ordinate_Resolution: 0.001024

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.4 meters

Denominator_of_Flattening_Ratio: 294.98

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: RDWY_CHN.AAT

Entity_Type_Definition: Arc/Info Feature Attribute Table

Entity_Type_Definition_Source: Wisconsin Department of Transportation (WisDOT)

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FNODE_

Attribute:

Attribute_Label: STUS

Attribute_Definition:

STATUS - The status of the roadway chain at the time of publication as derived from the representative dates.

Attribute_Definition_Source: WisDOT

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: C

Enumerated_Domain_Value_Definition:

Current - The current roadway chain used to cartographically represent a current road centerline.

Enumerated_Domain_Value_Definition_Source: WisDOT

Enumerated_Domain:

Enumerated_Domain_Value: H

Enumerated_Domain_Value_Definition:

Historical - Roadway chain is no longer used to cartographically represent a road centerline because either it's cartographic shape or an attribute value is no longer valid.

Enumerated_Domain_Value_Definition_Source: WisDOT

Enumerated_Domain:

Enumerated_Domain_Value: P

Enumerated_Domain_Value_Definition:

Pre-current - Roadway chain used to represent a road centerline that is not yet open to public traffic. The road could be in any stage of construction (From planning to nearly complete).

Enumerated_Domain_Value_Definition_Source: WisDOT

Attribute:

Attribute_Label: TNODE_

Attribute:

Attribute_Label: LPOLY_

Attribute:

Attribute_Label: RPOLY_

Attribute:

Attribute_Label: LENGTH

Attribute:

Attribute_Label: RWC_SYS_TY

Attribute_Definition:

ROADWAY CHAIN SYSTEM TYPE - The system type of the basic (primary) route for the roadway chain when a derived value could not be determined for BASC_SYS_TY. Only populated when BASC_SYS_TY is blank. (See BASC_RTE for a description of the method to determine the basic route.)

Attribute_Definition_Source: WisDOT

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CTH

Enumerated_Domain_Value_Definition: County Trunk Highway

Enumerated_Domain_Value_Definition_Source: WisDOT

Enumerated_Domain:

Enumerated_Domain_Value: IH

Enumerated_Domain_Value_Definition: Interstate Highway

Enumerated_Domain_Value_Definition_Source: WisDOT

Enumerated_Domain:

Enumerated_Domain_Value: LCR

Enumerated_Domain_Value_Definition: Local Road

Enumerated_Domain_Value_Definition_Source: WisDOT

Enumerated_Domain:

Enumerated_Domain_Value: STH

Enumerated_Domain_Value_Definition: Wisconsin State Highway

Enumerated_Domain_Value_Definition_Source: WisDOT

Enumerated_Domain:

Enumerated_Domain_Value: UNK

Enumerated_Domain_Value_Definition: Unknown

Enumerated_Domain_Value_Definition_Source: WisDOT

Enumerated_Domain:

Enumerated_Domain_Value: USH

Enumerated_Domain_Value_Definition: United States Highway

Enumerated_Domain_Value_Definition_Source: WisDOT

Enumerated_Domain:

Enumerated_Domain_Value: <blank>

Enumerated_Domain_Value_Definition:

No system type assigned. Can be considered the same as UNK.

Enumerated_Domain_Value_Definition_Source: WisDOT

Attribute:

Attribute_Label: BASC_RTE

Attribute_Definition:

BASIC ROUTE - The primary route that traverses any portion of the chain. Determined by a two-tiered hierarchy, where the first level is Interstate highways, followed by U.S. highway, followed by Wisconsin State highway and the second level is lowest to highest number. Routes with a leading alpha value are always the least basic. This attribute makes use of the Arc/Info capability to "REDEFINE" an existing column. The attribute is redefined over the first 5 columns in the CNCR_RDWY_RTE attribute.

Attribute_Definition_Source: WisDOT

Attribute_Domain_Values:

Unrepresentable_Domain: The first route listed in the CNCR_RDWY_RTE attribute.

Attribute:

Attribute_Label: RDWY_CHN2_

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: RDWY_CHN21

Attribute:

Attribute_Label: RDWY_CHN_I

Attribute:

Attribute_Label: DT_REPR_CU

Attribute:

Attribute_Label: DT_REPR_HS

Attribute:

Attribute_Label: DT_TRX_CUR

Attribute:

Attribute_Label: DT_TRX_HST

Attribute:

Attribute_Label: CNCR_RDWY_

Attribute:

Attribute_Label: RDWY_CHN_R

Attribute:

Attribute_Label: CHK_OUT_TR

Attribute:

Attribute_Label: BASC_TY

Overview_Description:

Entity_and_Attribute_Overview:

The data set contains attributes including temporal status of data, route names, and cartographic length of arcs.

Entity_and_Attribute_Detail_Citation:

Specific entity and attribute information not listed here can be found in the Roadway Chain Database section of the Location Control Management (LCM) Manual, WisDOT, Madison, Wisconsin, USA.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Wisconsin Department of Transportation

Contact_Position: GIS Analyst

Contact_Electronic_Mail_Address: christy.abing@dot.state.wi.us

Resource_Description: Offline data

Distribution_Liability:

The information contained in this data set was created for the official use of the Wisconsin Department of Transportation (WisDOT). Any other use, while not prohibited, is the sole responsibility of the user. WisDOT expressly disclaims all liability regarding fitness of use of the information for other than official WisDOT business.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 1.909

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

ftp://gomapout.dnr.state.wi.us/geodata/transportation/WisDOT_major_highways

Access_Instructions: Download from DNR ftp site.

Ordering_Instructions:

Contact the Wisconsin Department of Transportation directly for data access information.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Wisconsin DNR, Bureau of Technology Services

Contact_Position: GIS Data Specialist

Contact_Address:

Address_Type: mailing address

Address: P.O. Box 7921

City: Madison

State_or_Province: WI

Postal_Code: 53707-7921

Country: USA

Contact_Electronic_Mail_Address: geodata@dnr.state.wi.us

Resource_Description: Online data

Distribution_Liability:

Refer to <<http://www.dnr.state.wi.us/org/legal/WebSiteLegalInformation.html>>

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 1.909

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

ftp://gomapout.dnr.state.wi.us/geodata/transportation/WisDOT_major_highways.zip

Access_Instructions: Download from DNR ftp site.

Ordering_Instructions: Download from DNR ftp site.

Metadata_Reference_Information:

Metadata_Date: 20050404, 20060706

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Wisconsin Department of Transportation

Contact_Position: GIS Analyst

Contact_Address:

Address_Type: mailing address

Address: Room 201B, 4802 Sheboygan Avenue

City: Madison

State_or_Province: Wisconsin

Postal_Code: 53707

Country: United States

Contact_Electronic_Mail_Address: christy.abing@dot.state.wi.us

Hours_of_Service: 7:30 to 4:00 Monday to Friday

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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